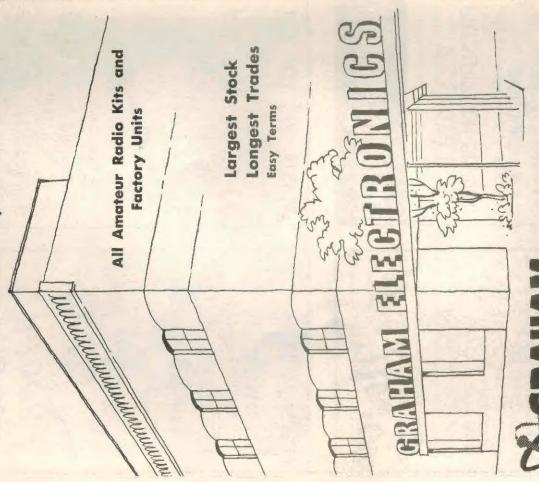
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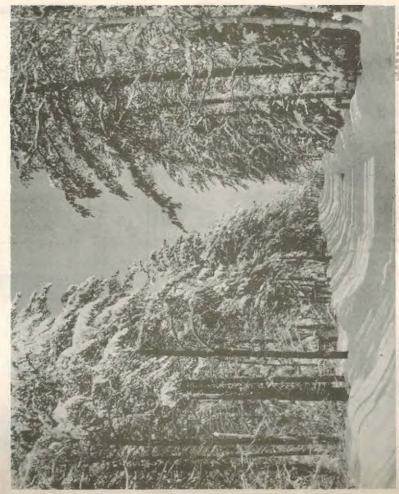
ME 4-8486

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# ama chewen

DECEMBER 1960

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INDIANAPOLIS RADIO CLUB, INC. 2223 E. 74th Street Indianapolis 20, Indiana

To

Robert Caskey W9DNQ 2355 Stuart St.

Indianapolis, Ind.

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The Indianapolis Radio Club meets on the 2nd and 4th Friday of each month at the Indianapolis Park Board Building located at 29th and Harding Streets. Meetings start promptly at 8:00 P.M. Indianapolis time.

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	*	***		

Ama-Chewer is published monthly by and for I.R.C. and all Amateurs in this area. Non-Members of I.R.C. may subscribe at the rate of \$1.00 per year.

Publication is on the 3rd Friday of each month, with all news items and ads due no later than the 1st Friday of each month.

Ham-Ads (5 line limit) are free to members and subscribers. Others may use this facility at the rate of 50 cents per ad.

Ama-Chewer welcomes the forwarding of information on coming events of other clubs in the area for publication in the program section.

#### PROGRAM SCHEDULE

fanuary 13th January 19th

the 1961 IRC Officers. Everyone turn out and Free Refreshments. Sponsored by the Allison Regular Business Meeting and Installation of Area Wide Ham Gear Swap and Auction at the Columbia Park Field House. Swap begins at House address is 2800 S. East Street. See Program night, with some interesting facts Amateur Radio Club, Columbia Park Club 8:00 P.M. and the Auction at 8:30 P.M. welcome the new crew into office. map below for street directions.

January 27th

February 10th

which will be announced in the January issue. Regular Business Meeting.

PARK CLUB House 2800 S. EAST COLUMBIA 4-KROPER HWD. JOHAISON STOP4 SHOP NOSIOAM G-AS 个ー个ー TROY LYM dx5 0407 BRILL WYDISON YNE SOUTHERN

MERRY CHRISTMAS AND A HAPPY NEW YEAR TO ALL THE GANG AT I.R.C. FROM THE AMA-CHEWER STAFF, AND MAY THE COMING YEAR BRING YOU AND YOURS MUCH HAPPINESS

### I.R.C. HIGHLIGHTS OF 1960

events were high on the IRC calendar, so we thought you Looking back over the year we find that the following might like to join us in a review.

Angus installed new officers, giving a brief past history of January-Frank Fitch photographed new officers for the Ama-Chewer cover. Eye-ball QSO project inaugurated. D. J. each. (What a shock this was.) Jerry Todd presented the "Toroid" for the IRC gang.

help to the blind students. Bob Kryter presented a program Dr. Rosenbaum explained how amateur radio would be of February-Start of soliciting help for blind school project. and film on "Space, Sputniks and You."

March-Dick Judkins made a talk on transistors, their design and use. D. J. Angus spoke on diodes, semi-conductors & their use. Everyone hot on the trail of Brownie Points. April-Brownie Point winner was Bob Spannuth, K9BSU. Homebrew night a big success with Cliff Singer, W9SWD walking off with the prize. Cliff Singer presented an interesting program on RTTY.

Day site. Swap & Shop night and man oh man did we have May-Bill Konold, W9UQV discussed and demonstrated his automatic key, Indiana Fair Grounds selected as Field a turn out this year.

convinced all that SSB was here to stay. Field Day, the June-Fred Manning described his cubicle quad, including movies of the construction. Rolly Boughton, W9PMM, fund, laughs and aching backs that followed.

his or her share of sunburn, bug bites and a choosen few [uly-August-Vacation time for IRC, with everyone getting getting their fish.

September-Decided to issue new local directory. The ARRL Convention at the Claypool Hotel. Bob Atherton gave a talk on transistors.

October-Nominating committee to start election slate. Bob Brockway of WFBM gave a talk on television cameras.

November-Antenna erected at blind school. Five slates for Plans made to continue classes at blind school. December election were filed. December-See this issue and we hope all the rest that will blame it on our memory as we ain't as young as some of If we left someone out follow during the coming year. you wipper-snappers.

\*\*\*\*

### UNCLE! UNCLE! UNCLE!

Now we know how it feels to be on the receiving end of "Letters to the Editor."

Now we know that we should check everything turned over to the printer.

Now we know that we should never attach notes to the

Now we know that we should destroy anything we don't want to print, as we are liable to get a mix up in the data.

Amateurs are on guard against violations of FCC regulations. Now we know that people read the Ama-Chewer and that

old DX Hound we have for a manager. It jolted him so much, patch for an exchange student from Holland which jolted the Last month we received a news item requesting a phone he sent it along to the Editor as an example of what not to

aside and went on with the preperation of the November issue As is the custom, he attached several odds and ends of news The Editor after being properly shocked, layed the article to the proof copy and sent it along to the Publisher.

The Publisher like a real news hawk, prints whats typed for him and reads the paper after it is mailed, so he didn't catch it either.

SO ----the day the mailman drops off the Ama-Chewer the reached the point where we were afraid to answer. With this hold the mail started coming in and we caught you know what day over we felt we had weathered the storm, but lo and bephone began to ring and didn't stop for hours. In fact it from everyone, including our out of state readers.

For the record we would like to say that third party traffic s NOT permitted to Holland and that you read the latest ssue of QST if you have any doubts.

With our heads bowed in shame, we again say "Uncle" and promise to watch it from here on out. Boy oh Boy those whips sure do smart.

### CALL LETTER LICENSE PLATES

A call to Mr. C. Bemmish at the Auto License Div.; shows that 1171 hams have made application for Call Letter Plates. ceived your card by now and your plates are waiting for you. If your application was sent in on time you should have re-Last year there were a total of 1227 plates issued which nakes a @#\$%¢ of the Amateurs in Indiana.

"GOBLIN PATROL"



assured Hank that I would lend all the assistance possible in been contacted by some of the law enforcement officer in his up roving radio patrols for the purpose of spotting vandalism & trouble devoloping due to the usual Halloween activity. I neighborhood with the question of the possibility of setting my capacity as a Communications Officer of Civil Defense. friend, K9LZJ, Hank Wolfla. Hank advised me that he had Early in October, I received a telephone call from our

As a result of that conversation, Hank arranged a meeting with the interested officers, myself, and several amateurs who were interested in taking part in the project.

went ahead with his plans and arranged the patrols in Williams Nora Fire Station, where they had access to the two way radio trol headquarters for the complete operation was set up in the With Hank appointed as special officer for the project, he Creek, Rocky Ripple, Meridian Hills and Ravenswood. Conof the Sheriffs' Department.

The operation used the six meter mobile facilities of the following amateurs: (See photo above) L. to R. in photo: Fred Nichols, K9ZHR; Kirk Wilson, W9AVI Not shown in photo: George McClellan, K9TDC; Dave Stuart, D. J. McVicker, W9JZV; Hank Wolfla, K9LZJ; Lee Easley, K9QDR; Don Litwiler, W9MHP and Howdy Wilcox, K9MXI

K90FG: Charles Schreiber K9VPF: Stewart Maywell Mocin

#### SWITCH TOPICS

Last month we considered the aspect of safety with respect to protecting the antenna and radio equipment from lightning. These considerations also protect the operator to a degree, but there is danger in another area that the operator risks everytime he operates the rig.

Have you ever sat down in front of the rig and reached for the knob to turn the equipment on and touched some of the metal parts of the gear and felt your fingers tickled by what you thought was stray voltage? You were right about "stray" and here is the reason.

As you will notice from the diagram, most of the power inputs to most commercial gear have built-in noise and RF filters. Because the manufacture can't know which way you will insert the plug in the 110 volt line, he can't ground one side of the line. This is also prevented by a ruling of the National Board of Safety Underwriters. So the manufacturer installs a balanced filter which puts the frame of the equipment at about sixty volts with respect to either side of the line. Now conditions are right for that occasional shock or tickle.

What is the cure? GROUND THE EQUIPMENT!!!

Proper grounding of the frames of all equipment you have in the shack, both to each other and to a good water pipe or driven ground rod could save your life.

Lets look at the diagram again. Suppose one of those bypass capacitors from one side of the line developes a short and that happened to be the HOT side of the line. Now the chassis is at full line voltage above ground. Anyone in his right mind wouldn't take the chance.

If the gear was grounded, a fuse would have blown and you would have known something had gone wrong in the power circuit.

So...... Switch To Safety" with properly grounded gear

### DOPEY DILDOCK SAYS

I'm really a smart amateur, but there ain't been anybody smart enough to figure out just what smart things I have done, which makes me as smart as I think I am.

#### . TWENTY YEARS AGO

November 1940 found the IRC preparing to elect officers for the coming year. A nominating committee consisting of Pete Jennings, Charles Tevebough and Art Schultz was appointed by the President, Don Davis, W9TYP.

Noble Burkhart, W9QG; announced that he was leaving Indianapolis at the end of the year to take employment in Lafayette with the Duncan Meter Co. where he is now

Art Schultz presented a program "An Insight Into Mechanical Refrigeration." Wade Kingery and Pete Jennings teamed up to direct a program "Automatic Voltage Regulation In Power Supplies."

A code school was announced to start in January of 1941, and Paul (Prof.) Nelson, W9BHC was to conduct the class. Writing about Nelson, we wonder why he doesn't get down to club anymore. Ama-Chewer was also reporting that his car "Sitting Calf" had suffered the loss of a fender and that the XYL Dorothy had been shaken up a bit in an accident.

Nelson Trusler announced that the club membership as of November 1st was 74% licensed, 15% to be working on their ticket and 11% being inactive.

LeRoy Waggoner, W9YMV reported in as a new member and he is another old timer we would like to see at club again.

Out-going officers for 1940 were in addition to W9JYP, Vice-Pres. Bob Caskey, W9DNQ; Treasurer Noble Burkhart, W9QG; Secretary Tiny Anderson, W9GVW; Chief Op. Fred Manning, W9VPN; 1st Director Glenn Montgomery, W9HUD; 2nd Director Arnold Dickmeyer, W9JPX.

Bob Caskey, W9DNQ was reported as conducting quiz programs in a manner similar to spelling bees and the Ama-Chewer further notes that the club library was a popular place after such programs as the boys didn't want to get tripped up on "that" question again. (The club was meeting in the Insley Building and had a ham shack library.)

Norris Knowsall, reporting in the Ama-Chewer covered the 1940 Central Division Convention that was held on September 28 & 29 of that year.

## GET ON YOUR WALKING SHOES

Arrangements are being made to start factory tours in and around the Indianapolis area, in a manner similar to those of a few years back. The fellows working on this are thinking in terms of the 3rd Friday of the month, although this is not definite as yet. (We hear that something is cookin' for a bus trip to Kokomo, Ed.)

continued from page 5

Arthur Niccum, K9LQW; Richard Andrews, K9SVB; David Charpie W9VRH; Bob Osterhous, W9PSE; George Lone, K9CBY and

In order to maintain contact with the town marshal of Rocky Ripple, a six meter rig was temporarily installed in the mar-Contact with the other police officers cars was maintained by relay shals' car and one of the amateurs rode with him, from the base station in the fire house,

Ripple, Jack Sanders in Meridian Hills and Ray Burgonfts in The cooperating police officers in this operation were: Richard Parker in Williams Creek, Mr. Raddler in Rocky Ravenswood.

These same people tagged the operation with the name we like This operation naturally drew the disfavor of the few toward whom it was directed for control and as a result Hank was exposed to some rather bad threats and uneasiness best "Goblin Patrol."

presented at the regular meeting of the Indianapolis Radio Club Citations of outstanding achievement, These Citations were zens Band Radio and at the direction of the Director, Indiana As Deputy Director of Communications, Amateur and Citipolis and Marion County Office of Civil Defense, it was my privilege and pleasure to recommend the above amateurs for

everytime that special or emergency communications are need-Deputy Director of Communications, Indianapolis and Marion Without the help and co-operation of the amateur radio opermakes me proud and glad to hold the position I hold for them It has been my responsibility to hold the appointment of ed in support of any Civil Defense operation, the way that Defense emergency communication could not be carried on County Office of Civil Defense for the past four years and the Amateur Radio Operators turn out with their equipment, ators and their equipment, much of the operation of Civil Doyal J. McVicker, W9JZV

Wanted -- BC-459-Will take it in new or unmodified cond, or Alvey Pittman, W9JJC modified if it is already on 20 meters HAM ADS

Wanted -- A Merry Christmas for all the gang at IRC and their families and may the old bearded gent load your Ama-Chewer Staff-W9 IP stockings with "goodles.

# BLIND SCHOOL AMATEUR REPORT

the school, but the antenna just won't load up. Bob Osterhou Four novices at the blind school, who passed their exams late last Spring are attempting to operate from the station at W9PSE built up a tuning unit, but it still won't load. Help-

that he has been with us at the school. In the past two weeks blind operators can get a better idea of what the circuit looks by means of a sewing machine, made four copies of the diagrams needed for the questions in the manual, so that these slate and stylus and learned to print Braille; further he has, this man has gone out to the school regularly, purchased a A new volunteer has been a real help in the two weeks like. A mighty big thanks to James Rees, Kn9YKH for his

as a General class but several who helped last year are un-We had hoped to start another class for Novices as well enough volunteers, so at present we are concentrating on trying to get the four Novices into position for a General able to take a teaching assignment, and we haven't had class ticket try, sometime this coming Spring

\$10.00 per year, both published under the "Braille Technical Press, Inc." (Do you suppose any of our readers might take You will remember he was awarded the 1955 G.E. sponsored magazine is \$7.00 per year and the talking book version is Last week the school received a complimentary copy of published by Bob Gunderson, W2JIO who is blind himself. "Edison Radio Amateur Award." The Braille edition of this the only electronic magazine put out in Braille, which is the hint???? Ed.)

### HOT OFF THE GRIDDLE

By the time this edition reaches your QTH the red hot copies of the Indianapolis Area Directories will have rolled off the press and we will be waiting for the ink to dry. Those them in the mail. (You may already have them if Pat fanned you who have already sent in your \$1.00 will be receiving the ink. Ed.)

to lay flat when open, and it will have 911 calls with a alpha reserve your copy of the directory. Make all checks payable It's a classy deal with plastic hinges that allows the unit betical index by last name. You just can't be without this Item, so get your orders in now! Send \$1.00 to Pat Husk, K9EUQ, 2223 East 74th Street, Indianapolis 20, Ind. to to the Indianapolis Radio Club, Inc.

# GRAHAMS SPECIALS OF THE MONTH

					A STATE OF				
Gonset Communicator III	Viking Ranger/	R.E.M. HF 110-20	Gonset G.S.B100	Johnson Courier\$184.50	Johnson Pacemaker\$295.00	Drake 1-A.	Gonset Mobile Twins, G66-B & G77 w/DC nower \$339 50	Heath S.B10	PLUS MANY MORE - SEE FOR YOURSELF - BUYS

Hoosierland. We recommend it as a must for all active hams. The subscription rate is \$1.25 per year and we think you will scene, which will be good news to the gang around the state The IRCC monthly issue of the Bison has returned to the find it well worth it, when you have coverage of the state news and the technical info. from many sources around \*\*\*\*

GOOD NEWS FOR INDIANA AMATEURS

\*\*\*\*

# CHANCE TO SAVE ON NEXT SUBSCRIPTION

Arrangements have been made for our members to obtain subscriptions to CQ at the reduced rate of \$4.30.

Membership in the A.R.R.L. and the benefits of QST can K9EUQ, the money keeper of I.R.C. and he will take care also be obtained for \$4.30 per year. Contact Pat Husk, of your reading and membership needs.

\*\*\*\*

#### 1961 DUES

A reminder----1961 dues are due for a lot of our members and Pat Husk will take pennies, nickles, dimes, quarters, half dollars and bills. He will even take personal checks providing you send along your transmitter as security.

you will at that time pay only the portion which will pay you To those members whos' dues come due during the year,

up to December 31, 1961.

which will make it easier on the bookeeper and money grabber. In a like manner new members will be billed on portions of the The idea here is to get all members on the same basis, year after acceptance.

\*\*\*\*

#### PROGRAM REVIEW

Friday, November 25th a record attendance was present to hear D. J. Angus, W9CYQ, President-retired of Esterline-Angus Co. give a program on electrical meters.

type meter was commonly used on spark-gap type transmitters coil which is free to swing over the face of a graduated dial, compensated for room temperature by a bi-metal strip. This tions of wires, through which one wire carried the current & D. J. began by showing how a simple galvanometer conelectromagnetic field and was first determined by Oersted. due to expansion caused a needle to move. This was then The first meters for RF measurement consisted of combinasists essentially of a magnetic needle suspended within a This magnetic needle is deflected when influenced by an

The air gap between coil & magnet is kept as small as possihair springs; one wound each way to balance any temp. diff-The D'Arsonval type meter used for most DC measurments In this meter the turning force is proportional to the current and thus the meter scale is uniform and has equally spaced hair spring also serves to bring current to the moving coil. ble. The coil is held at each end by jeweled bearings and are of the permanent-magnet moving coil type instrument. erence which would tend to cause the needle to move.

ger current, while only a small portion actually goes through meter, therefore the meter reading is proportional to the lar-Larger currents are measured by using a shunt across the shunt would be calibrated to give this 100 MV and provide full scale reading. A 50 MV F.S. reading is common for regular indicating meters, but the 100 MV is for the recording the hair springs to the moving coil. 100 MV is a standard voltage to give full scale deflection and thus a 1000 Amp. type instrument.

For voltage measurement a series resistance is added to the above D'Arsonval meter so a certain voltage gives F.S. deflection and thus limits the current through the meter to I ma or whatever the basic meter current F.S. value.

it is usually not possible to measure Coil resistance with an meter to make it read full scale. Then insert resistance into To change a volt meter scale or adapt to a different range the circuit and adjust it to provide half scale reading. This ohm meter as it might damage a sensitive meter. Therefore resistance is now equal to resistance of meter and now you With this value of resistance the meter can now be made to D. J. explained that by a test set up, apply voltage to the can measure it directly with ohm meter or bridge method.

(continued on page 12)

read any range by proper figuring of the series resistance. If voltages above 1500 volts are measured this usually requires a separate box for the series resistor, similar to the external shunt for an ammeter.

An A.C. Dynamometer ma. meter consists of 2 stationary coils and a moving coil with the same current flowing through all three. This meter is free of wave form errors and relatively free of frequency errors to a point. The force on the moving coil of this meter is proportional to the square of the current. According to the books the moving element deflects proportional to the average of the instantanious torques because the coil has sufficient inertia to prevent it from responding to the instantanious variation. Hence, the coil assumes a position corresponding to the average square of the instantanious current. If a suitable square root scale is placed under the pointer, the meter will show the square root of the average of the squared currents or effective value of the current through the coils. In other words it shows the R.M.S. or rout mean square current.

A more common A.C. volt meter is the rectifier type which uses a D'Arsonval type movement after the rectifier and a scale calibrated accordingly. This meter is good only for the wave form which the scale is calibrated. D. J. reminded us of several things to keep in mind on A.C. measurments:

1. Current lags voltage in an inductive circuit.

2. Current leads voltage in a capacitive circuit.

3. The A. C. Dynamometer requires much more power

from the circuit measured than D. C. types.
4. For chart type meters, 100 times torque is required to maintain 1% accuracy.

Angus answered questions after his talk and we are sure all who attended went away with a little better understanding of meters and enough interest to look up any questions in the many reference books. As Angus said, "It's all in the books." The ever famous story of ink for graphic meters was told by D. J. and as he said the two barrels they make a week would make a #%\$\$\&\phi\$\$\$ of a long line.

\*\*\*\*

### PRESIDENTS FREQUENCY

They didn't leave me much space this month, however in a few lines alloted I wish to thank each of you for the splendid cooperation given me and your Directors during 1960. Like other years, this one seems to be better than the last, and the next one promises to be even better than the fast fading and slightly worn 1960.

Remember that IRC is your club and it will grow & prosper only if you are active. Merry Christmas to you and yours.

Alvey Pittman, W911C

THE SPIRIT OF AMATEUR RADIO HASN'T CHANGED

Last month while making phone calls during the followup for the directory questionnaire, we talked to an old-timer P. R. Kennedy, W9AKP. He's inactive now and during the conversation he mentioned he had some gear lying around which he would pass along to some young Amateur, if we knew of anyone who might want it.

A call to George Lone and Jerry Bramblett sent several members of the Tech. Radio Club sailing out to his home. W9AKP loaded them down after which they went home to split the loot. If you have ever had this happen to you, you know just how much interest can be generated over a box of FREE gear.

Alvey told us how he received a basket full of coils and condensers back in 1922 and how he thought that was the biggest bunch of pretty green wire he had ever seen. (60 minus 22 equals 38---come on Pitt, are you that old? Ed.)

The point here is, if you have any surplus gear or items one stage above the junk box, why not pass some of it along to a youngster who will spend hours inspecting and salvaging parts and getting an education at the same time.

Thanks AKP for helping the younger of the gang

\*\*\*\*

#### ALL IS NOT WORK

(Ye Ole Publisher lost the picture)

All is not work at a Directors meeting, as can be seen from the above photo taken at the QTH of Bert Brouse, K9JSF. Bert is serving the goodles prepared by the XYL and we are sure you can recognize the chow-hounds in action.

5

Reprinted from the December 1959 issue of Ama-Chewer

#### OUR COVER

'Twas the night before Christmas and all over the scope, Not a signal was stirring in spite of my hope.

The antenna was strung from the towers with care, In hopes that some DX soon would be there.

The kids were all snuggled deep in their beds, As I wrote up the log from the morning skeds. Ma with her IV and I in the shack, Were nibbling around on a late evening snack.

When out of the speaker there rose such a clatter, I flipped on the filter to see what was the matter. The tuner was adjusted as quick as a flash, So I could better pick out the dot from the dash.

The noise on a null at a near perfect low, Gave the signal a sharpness like bells in a row. When what to my wondering ears did I hear, But KC4 strong, loud and clear.

With his electronic bug so lively and quick, I knew in a moment it wasn't a trick. More rapid than eagles his signals they came, As he alerted the gang, calling all by name.

DX-Chicago-Dallas and Fort Wayne, California-Nevada-Rhode Island and Maine. To rigs in the basement and rigs in the hall, Now standby-standby, standby all. As dry leaves that before the wild hurricane fly, Came the dots and the dashes from the southern sky. While up to the north these signals I knew, Were word of the depature of St. Nick and his crew.

Then came a signal full of power, no spoof, It near bent the antenna clean off of my roof. Australia was calling the whole world around, St. Nick had just passed them, still north bound.

(con't. on page 15)

continued from page 14

I imagined him in fur from his head to his foot, And the wrapped gear in his pack protected from soot. As I wished that the loot he had flung on his back, Contained some new gear for my old AM shack.

Florida borke in with a voice gay and merry, Rudolphs nose was lit like he had been in the sherry. And that after making a stop, St. Nick had to go, With red nose in front and the sleigh in tow.

I suddenly bit on my pipe with my teeth,
For I thought I saw him beyond the window wreath.
Sure enough it was him and his little round belly,
That shook when he laughed like a bowl full of jelly.

Into the shack he came, a right jolly old elf, Explaining his mobile was dead, beyond fixing himself. So I turned to the bench some ham magic to spread, While the old boy sat down to check out his sked.

I spoke not a word but went on with my work,
Till the old boys rig really started to perk.
And after tuning it up, till it was right on the nose,
He took his rig with a nod, and up the chimney he rose.

The Christmas gear he had left caused me to whistle, As away he flew like the down of a thistle.

But I copied his mobile as he drove out of sight,

Merry Christmas to all, 73, and goodnight.

\*\*\*

### BURNING THE NITE OIL

John Jones, W9FZW is teaching a Commercial Class radio course at Indianapolis Tech, night school. Classes are being held on Tuesday and Thursday nights, and we understand that John is finding it an easy task to keep a full enrollment. We also understand that it is as much the teacher as the course that is making it a big success. A tip of the lid to you John on a fine Job.

\*\*\*\*

We have word from the Tech. High Radio Club that they now have 24 members and that 12 of them are carrying tickets. W9HFQ has been the starting station of many amateurs and it.

### ELECTION OF OFFICERS



On Friday, December 9th the club held its regular annual election of officers at the business meeting. In all, five slates of candidates were submitted.

withdrawls by nominees, the balloting got under way. After the After the usual reading of the parts of the Club Constitution that the following had been elcted to serve as officers for the voting had been completed and ballots counted it was found governing the election of officers and the few requests for coming year:

W9APJ; Secretary-O. Lee Easley, K9QDR; Treasurer-Pat Husk, Alvey Pittman, W9JJC; 2nd Director-Doyal McVicker, W9JZV. President-Bert Brouse, K9JSF; Vice-President-Jerry Lucas, K9EUQ; Chief Op.-Fritz Manning, W9VPN; 1st Director-

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